



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/750,032	12/31/2003	Timothy W. Vanderveen	080623-0407	9236
80236	7590	11/16/2009	EXAMINER	
McDermott Will & Emery LLP 11682 EL CAMINO REAL SUITE 400 SAN DIEGO, CA 92130-2047			RAJ, RAJIV J	
			ART UNIT	PAPER NUMBER
			3686	
			NOTIFICATION DATE	DELIVERY MODE
			11/16/2009	ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

SIP\_Docket@mwe.com

<b>Office Action Summary</b>	<b>Application No.</b> 10/750,032	<b>Applicant(s)</b> VANDERVEEN, TIMOTHY W.	
	<b>Examiner</b> RAJIV J. RAJ	<b>Art Unit</b> 3686	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 06 October 2009.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1 and 3-25 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1, 3-25 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 30, 2009 has been entered.

### ***Status of Claims***

2. This action is in reply to the amendment filed on 06 October 2009.
3. Claims 1, 17 & 25 have been amended.
4. Claims 2 & 26 have been canceled.
5. Claims 1 & 3-25 are currently pending and have been examined.

### ***Claim Objections***

6. Claims 3,4 & 9 objected to because of the following informalities: the claims are dependent on claim 2 which has been canceled. Appropriate correction is required.

***Claim Rejections - 35 USC § 101***

7. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

8. In response to applicant's amendments the 101 rejection of claims 25-26 has been withdrawn.

***Claim Rejections - 35 USC § 103***

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

10. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

11. Claims 1, 3-7, 9-21, and 23-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Halvorson (US 4847764) (hereinafter Halvorson) in view of

Allen, III (US 4731726) (hereinafter Allen) in further view of Bui et al.

(US 2003/0140928 A1) (hereinafter Bui).

### **Claim 1**

Halvorson as shown discloses the following limitations:

- *a plurality a plurality of medication administration devices for delivering medication to a plurality of patients; (see at least Halvorson Fig:2 Items:32,40,50-52 & related text)*
- *a central processing unit (CPU) in communication with a subset of the plurality of medication administration devices and configured to monitor the subset of the plurality of medication administration devices and display results of the monitoring; (see at least Halvorson Fig:1 Items:10-32 & related text)*
- *an infusion pump or a monitor for monitoring a patient's vital signs, the CPU configured to track a location of the at least one peripheral equipment in a hospital; (see at least Halvorson Claims:1(b), 55(b))*
- *the medication administration information including a plurality of medication administration parameters and a parameter value associated with each medication administration parameter; (see at least Halvorson Fig:3 Items:62,63 & related text)*
- *a central computer display connected to the central processor and configured to display a . . . display of status and schedule information for all drug*

*administrations to the plurality of patients; (see at least Halvorson Fig:1 Items:10-32 Fig:3 Item:61 Fig:30 Item:95 & related text)*

- *a database operatively connected to the central processor for storing medication administration guidelines representing acceptable values for the medication administration parameters; (see at least Halvorson Fig:1 Items:10-32 Fig:4-23 & related text)*
- *means for communicating medication administration information from each of the medication administration devices to the central processor; (see at least Halvorson Fig:1 Items:10-32 & related text)*
- *wherein the central processor is further configured to compare the parameter values to the acceptable values for the parameters in the medication administration guidelines (see at least Halvorson Claim:2)*
- *wherein the central processor and the CPU are communicatively coupled via a local area network; (see at least Halvorson Fig:1 Items:10-32 & related text)*

Halvorson does not disclose the following limitations, however Allen, as shown does:

- *a memory associated with each medication administration device for storing medication administration information associated with the medication delivered to each patient, (see at least Allen Fig:2 Items:150-154 & related text)*
- *a central processor configured to receive medication administration information from each of the medication administration devices; (see at least Allen Fig:4 Items:10, 102-106 & related text)*

It would have been obvious to one of ordinary skill in the art to add the features of Allen into Halvorson. One of ordinary skill in the art would have added these features into Halvorson with the motivation of providing an improved method and system for monitoring and adjusting administration of medication for more effective patient healthcare. (see at least Allen Column:1 Lines:62-68 Column:2 Lines:1-15) Halvorson/Allen does not disclose the following limitations, however Bui, as shown does:

- *the CPU further in communication with at least one peripheral equipment comprising a barcode reader;* (see at least Bui Fig:1 Items:104,104a-f & related text)
- *wherein the central processor is further configured to display a list of ongoing infusions to the plurality of patients;* (see at least Bui [0040] Fig:1 Items:100-110 Fig:3 Items:302 & related text)

It would have been obvious to one of ordinary skill in the art to add the features of Bui into Halvorson/Allen. One of ordinary skill in the art would have added these features into Halvorson/Allen with the motivation to provide a more efficient and effective method and system for displaying, communicating and managing the administration of medication yielding higher quality healthcare. (see at least Bui [0004-0005])

The combination of Halvorson/Allen/Bui discloses all the limitations of Claim 1. Halvorson/Allen/Bui does not specifically disclose *color coded*. However, the

Examiner takes **Official Notice** that it is old and well known in the medical arts to provide services in a regulated and managed manner.

It would have been obvious to one skilled in the art at the time of the invention to combine the limitations of Halvorson/Allen/Bui with a limitation where the *color coded* because it is a natural and commonly-used aspect in organizing and displaying medical data.

### **Claim 3**

The combination of Halvorson/Allen/Bui disclose all the limitations of claim 2. Halvorson further discloses the following limitation:

- *the central processor is further configured to provide a visual indication on the central computer display if one of the parameter values does not fall within the acceptable values for the parameter in the corresponding medication administration guideline (see at least Halvorson Fig:1 Items:10-32 & related text)*

### **Claim 4**

The combination of Halvorson/Allen/Bui disclose all the limitations of claim 2. Halvorson further discloses the following limitation:

- *the central computer display is located in a pharmacy; (see at least Halvorson Abstract, Fig:1 Items:10-32 Fig:16 Item:84 Fig:27 Item:92 Fig:28 Item:93 & related text)*

### **Claim 5**



The combination of Halvorson/Allen/Bui disclose all the limitations of claim 3.

Allen further discloses the following limitations:

- *means for a clinician to adjust the medication administration parameter values in response to the visual indication* (see at least Allen Column:6 Lines:45-50)

It would have been obvious to one of ordinary skill in the art to add the features of Allen into Halvorson/Allen/Bui. One of ordinary skill in the art would have added these features into Halvorson/Allen/Bui with the motivation of providing an improved method and system for monitoring and adjusting administration of medication for more effective patient healthcare. (see at least Allen Column:1 Lines:62-68 Column:2 Lines:1-15)

#### **Claim 6**

The combination of Halvorson/Allen/Bui disclose all the limitations of claim 5.

Allen further discloses the following limitations:

- *means for the clinician to report to a caregiver at the point of care the adjusted medication administration parameter values* (see at least Allen Column:2 Lines:40-47)

It would have been obvious to one of ordinary skill in the art to add the features of Allen into Halvorson/Allen/Bui. One of ordinary skill in the art would have added these features into Halvorson/Allen/Bui with the motivation of providing an improved method and system for monitoring and adjusting administration of medication for

more effective patient healthcare. (see at least Allen Column:1 Lines:62-68  
Column:2 Lines:1-15)

**Claim 7**

The combination of Halvorson/Allen/Bui disclose all the limitations of claim 1.  
Allen further discloses the following limitation:

- *the central processor is further configured to automatically adjust the medication administration parameter values in response to an indication that one of the parameter values does not fall within the acceptable values for the parameter in the corresponding medication administration guideline* (see at least Allen Fig:56 Items:320-370 & related text)

It would have been obvious to one of ordinary skill in the art to add the features of Allen into Halvorson/Allen/Bui. One of ordinary skill in the art would have added these features into Halvorson/Allen/Bui with the motivation of providing an improved method and system for monitoring and adjusting administration of medication for more effective patient healthcare. (see at least Allen Column:1 Lines:62-68  
Column:2 Lines:1-15)

**Claim 9**

The combination of Halvorson/Allen/Bui disclose all the limitations of claim 2.  
Halvorson further discloses the following limitation:

- *means for communication between a caregiver located at one of the medication administration devices and a clinician located at the central computer display* (see at least Halvorson Fig:1 Items:10-32 & related text)

**Claim 10**

The combination of Halvorson/Allen/Bui disclose all the limitations of claim 1.

Allen further discloses the following limitation:

- *the medication administration parameters include current medication administration device operating parameters; (see at least Allen Column:16 Lines:54-65 Fig:7A-8E & related text)*

It would have been obvious to one of ordinary skill in the art to add the features of Allen into Halvorson/Allen/Bui. One of ordinary skill in the art would have added these features into Halvorson/Allen/Bui with the motivation of providing an improved method and system for monitoring and adjusting administration of medication for more effective patient healthcare. (see at least Allen Column:1 Lines:62-68 Column:2 Lines:1-15)

**Claim 11**

The combination of Halvorson/Allen/Bui disclose all the limitations of claim 1.

Allen further discloses the following limitation:

- *the medication administration guidelines include the acceptable values for the medication administration parameters based on patient condition data; (see at least Allen Fig:5G Items:320-370 & related text)*

It would have been obvious to one of ordinary skill in the art to add the features of Allen into Halvorson/Allen/Bui. One of ordinary skill in the art would have added these features into Halvorson/Allen/Bui with the motivation of providing an improved method and system for monitoring and adjusting administration of medication for

more effective patient healthcare. (see at least Allen Column:1 Lines:62-68  
Column:2 Lines:1-15)

### **Claim 12**

The combination of Halvorson/Allen/Bui disclose all the limitations of claim 11.

Halvorson further discloses the following limitations:

- *wherein the processor is further configured to compare the parameter values to the acceptable values for the parameters in the medication administration guidelines corresponding to the stored patient condition data associated with each patient* (see at least Halvorson Claim:2)

Halvorson/Allen/Bui does not disclose the following limitations, however Allen, as shown does:

- *a memory operatively connected to the central processor for storing patient condition data associated with each patient;* (see at least Allen Claim:5)

It would have been obvious to one of ordinary skill in the art to add the features of Allen into Halvorson/Allen/Bui. One of ordinary skill in the art would have added these features into Halvorson/Allen/Bui with the motivation of providing an improved method and system for monitoring and adjusting administration of medication for more effective patient healthcare. (see at least Allen Column:1 Lines:62-68  
Column:2 Lines:1-15)

### **Claim 13**

The combination of Halvorson/Allen/Bui disclose all the limitations of claim 12.

Allen further discloses the following limitation:

- *the patient condition data for each patient includes current physiological status; (see at least Allen Fig:5B-F & related text)*

It would have been obvious to one of ordinary skill in the art to add the features of Allen into Halvorson/Allen/Bui. One of ordinary skill in the art would have added these features into Halvorson/Allen/Bui with the motivation of providing an improved method and system for monitoring and adjusting administration of medication for more effective patient healthcare. (see at least Allen Column:1 Lines:62-68 Column:2 Lines:1-15)

#### **Claim 14**

The combination of Halvorson/Allen/Bui disclose all the limitations of claim 1.

Allen further discloses the following limitation:

- *the medication administration guidelines include the acceptable values for the medication administration parameters based on medication indication data; (see at least Allen Fig:6A-8B & related text)*

It would have been obvious to one of ordinary skill in the art to add the features of Allen into Halvorson/Allen/Bui. One of ordinary skill in the art would have added these features into Halvorson/Allen/Bui with the motivation of providing an improved method and system for monitoring and adjusting administration of medication for more effective patient healthcare. (see at least Allen Column:1 Lines:62-68 Column:2 Lines:1-15)

### **Claim 15**

The combination of Halvorson/Allen/Bui disclose all the limitations of claim 1.

Halvorson further discloses the following limitations:

- *a memory in which is stored medication order information for a plurality of patients, the medication order information including a plurality of prescribed medication administration parameters for delivering medication to each patient and a parameter value associated with each prescribed medication administration parameter; (see at least Halvorson Fig:3 Item:67 Fig:4, Fig:20 Item:85, Fig:25 Item:90 & related text)*
- *wherein the processor is further configured to compare the parameter values of the prescribed medication administration parameters to the acceptable values for the medication administration parameters in the medication administration guideline (see at least Halvorson Claim:2)*

### **Claim 16**

The combination of Halvorson/Allen/Bui disclose all the limitations of claim 15.

Allen further discloses the following limitation:

- *a central computer display operatively connected to the central processor and wherein the central processor is further configured to display the medication order information and the medication administration information on the central computer display (see at least Allen Fig:1 Items:12,14, Fig:2 & related text)*

It would have been obvious to one of ordinary skill in the art to add the feature of Allen into Halvorson/Allen/Bui. One of ordinary skill in the art would have added this feature into Halvorson/Allen/Bui with the motivation of providing an improved method and system for monitoring and adjusting administration of medication for more effective patient healthcare. (see at least Allen Column:1 Lines:62-68 Column:2 Lines:1-15)

**Claim 17**

Halvorson as shown discloses the following limitations:

- *the medication administration information including a plurality of medication administration parameters and a parameter value associated with each medication administration parameter; (see at least Halvorson Fig:3 Items:62,63 & related text)*
- *storing a database of medication administration guidelines representing acceptable values for the medication administration parameters; (see at least Halvorson Fig:1 Items:10-32, Fig:4-23 & related text)*
- *communicating the medication administration information and the medication administration guidelines to a central location; (see at least Halvorson Fig:1 Items:10-32 & related text)*
- *comparing, on a computer at the central location, the parameter values to the acceptable values for the parameters in the medication administration*

*guidelines; (see at least Halvorson Claim:2 Fig:1 Items:10-32 & related text)*

- *said acceptable values comprising a soft limit and a hard limit; (see at least Halvorson Fig:4-25 & related text)*
- *operating a medication administration device by issuing an alarm if one of said parameter values contravenes its corresponding hard limit; (see at least Halvorson Column:5 Lines:3-32 Fig:1 Items:10-32 & related text)*

Halvorson does not disclose the following limitations, however Allen, as shown does:

- *monitoring medication administration information associated with medication delivered to each patient (see at least Allen Claim:1)*
- *providing, using the computer at the central location, a visual indication on a computer display at the central location if one of the parameter values contravenes its corresponding soft limit in the medication administration guideline; (see at least Allen Fig:1 Item:10, Fig:2 Item:102, Fig:5G Items:320-370, Fig:6B Items:414-432, Fig:7A Items:500-516 Fig:23 & related text)*

It would have been obvious to one of ordinary skill in the art to add the feature of Allen into Halvorson. One of ordinary skill in the art would have added this feature into Halvorson with the motivation of providing an improved method and system for monitoring and adjusting administration of medication for more effective patient healthcare. (see at least Allen Column:1 Lines:62-68 Column:2 Lines:1-15)



Halvorson/Allen does not disclose the following limitations, however Bui, as shown does:

- *requiring an acknowledgment from a user before operating the medication administration device using a medical administration parameter contravening a corresponding soft limit;* (see at least Bui [0053-0054], [0066], [0069-0071] Claims:1,25 & 26 Fig:4 Items:400 & related text)

It would have been obvious to one of ordinary skill in the art to add the features of Bui into Halvorson/Allen. One of ordinary skill in the art would have added these features into Halvorson/Allen with the motivation to provide a more efficient and effective method and system for displaying, communicating and managing the administration of medication yielding higher quality healthcare. (see at least Bui [0004-0005])

### **Claim 18**

The combination of Halvorson/Allen/Bui disclose all the limitations of claim 17. Allen further discloses the following limitation:

- *displaying the medication administration information on a computer display at the central location* (see at least Allen Fig:1 Items:12 fig:2 & related text)

It would have been obvious to one of ordinary skill in the art to add the feature of Allen into Halvorson/Allen/Bui. One of ordinary skill in the art would have added this feature into Halvorson/Allen/Bui with the motivation of providing an improved method and system for monitoring and adjusting administration of medication for more

effective patient healthcare. (see at least Allen Column:1 Lines:62-68 Column:2 Lines:1-15)

**Claim 19**

The combination of Halvorson/Allen/Bui disclose all the limitations of claim 18. Halvorson further discloses the following limitation:

- *providing an indication at the central location includes displaying an alert on the computer display;* (see at least Halvorson Column:5 Lines:3-35, Fig:1 Items:10-32 & related text)

**Claim 20**

The combination of Halvorson/Allen/Bui disclose all the limitations of claim 17. Allen further discloses the following limitation:

- *adjusting the medication administration parameter values from the central location in response to the indication;* (see at least Allen Column:6 Lines:45-50)

It would have been obvious to one of ordinary skill in the art to add the feature of Allen into Halvorson/Allen/Bui. One of ordinary skill in the art would have added this feature into Halvorson/Allen/Bui with the motivation of providing an improved method and system for monitoring and adjusting administration of medication for more effective patient healthcare. (see at least Allen Column:1 Lines:62-68 Column:2 Lines:1-15)

**Claim 21**

The combination of Halvorson/Allen/Bui disclose all the limitations of claim 17.

Allen further discloses the following limitation:

- *communicating information from the central location to a care-giver located at the point of care* (see at least Allen Column:2 Lines:40-47)

It would have been obvious to one of ordinary skill in the art to add the feature of Allen into Halvorson/Allen/Bui. One of ordinary skill in the art would have added this feature into Halvorson/Allen/Bui with the motivation of providing an improved method and system for monitoring and adjusting administration of medication for more effective patient healthcare. (see at least Allen Column:1 Lines:62-68 Column:2 Lines:1-15)

### **Claim 23**

The combination of Halvorson/Allen/Bui disclose all the limitations of claim 17.

Allen further discloses the following limitation:

- *the medication administration guidelines include the acceptable values for the medication administration parameters based on patient condition data* (see at least Allen Fig:5G Items:320-370 & related text)

It would have been obvious to one of ordinary skill in the art to add the feature of Allen into Halvorson/Allen/Bui. One of ordinary skill in the art would have added this feature into Halvorson/Allen/Bui with the motivation of providing an improved method and system for monitoring and adjusting administration of medication for more effective patient healthcare. (see at least Allen Column:1 Lines:62-68 Column:2 Lines:1-15)

**Claim 24**

The combination of Halvorson/Allen/Bui disclose all the limitations of claim 17.

Allen further discloses the following limitation:

- *the medication administration guidelines include the acceptable values for the medication administration parameters based on medication indication data; (see at least Allen Fig:6A-8B & related text)*

It would have been obvious to one of ordinary skill in the art to add the feature of Allen into Halvorson/Allen/Bui. One of ordinary skill in the art would have added this feature into Halvorson/Allen/Bui with the motivation of providing an improved method and system for monitoring and adjusting administration of medication for more effective patient healthcare. (see at least Allen Column:1 Lines:62-68 Column:2 Lines:1-15)

**Claim 25**

Halvorson as shown discloses the following limitations:

- *reviewing, at a pharmacy computer, a medication order prescribed by a physician; (see at least Halvorson Claim:1 Fig:1 Items:10-32 & related text)*
- *checking, at the pharmacy computer, the medication order for incompatibilities with the patient's record; (see at least Halvorson Claim:5 Column:2 Lines:38-61)*

- *transferring the medication order to a nursing station following the checking for incompatibilities; (see at least Halvorson Column:22 Lines:35-67 Column:23 Lines:1-67 Fig:1, 24, 28 Items:10-32 & related text)*
- *communicatively coupled with the pharmacy computer with medication delivery parameters; (see at least Halvorson Fig:1, 16 Items:10-32 & related text)*
- *verifying, at the pharmacy computer, the medication delivery parameters; (see at least Halvorson Column:4 Lines:45-66 Claim:12)*
- *if the verification passes, then administering the medication order to the patient using the clinical device according to the verified medication delivery parameters; (see at least Halvorson Claims:1,2 & 13)*
- *if the verification fails, then sounding an alarm at the pharmacy computer; (see at least Halvorson Claim:9)*
- *administering the medication order to the patient using the clinical device according to the corrected or overridden medical delivery parameters; (see at least Halvorson Claims:1,2 & 55)*

Halvorson does not disclose the following limitations, however Allen, as shown does:

- *programming a clinical device connected to the patient; (see at least Allen Fig:4 Items:10-114 & related text)*

- *allowing a user to correct or override, in real-time, the medication delivery parameters; (see at least Allen Column:27 Lines:30-50)*

It would have been obvious to one of ordinary skill in the art to add the feature of Allen into Halvorson. One of ordinary skill in the art would have added this feature into Halvorson with the motivation of providing an improved method and system for monitoring and adjusting administration of medication for more effective patient healthcare. (see at least Allen Column:1 Lines:62-68 Column:2 Lines:1-15)

12. Claims 8 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Halvorson in view of Allen in further view of Kaufman et al. (US 5267174) (hereinafter Kaufman).

#### **Claim 8**

The combination of Halvorson/Allen/Bui disclose all the limitations of claim 1. Kaufman further discloses the following limitation:

- *the central processor periodically compares the parameter values to the acceptable values for the parameters in the medication administration guidelines throughout the administration of the medication (see at least Kaufman Column:19 Lines:12-16)*

It would have been obvious to one of ordinary skill in the art to add the feature of Kaufman into Halvorson/Allen/Bui. One of ordinary skill in the art would have added this feature into Halvorson/Allen/Bui with the motivation to provide an adjustable and

a more effective interactive medication delivery device. (see at least Kaufman Column:2 Lines:15-28)

## **Claim 22**

The combination of Halvorson/Allen/Bui disclose all the limitations of claim 17. Kaufman further discloses the following limitation:

- *periodically comparing the parameter values to the acceptable values for the parameters in the medication administration guidelines throughout the administration* (see at least Kaufman Column:19 Lines:12-16)

It would have been obvious to one of ordinary skill in the art to add the feature of Kaufman into Halvorson/Allen/Bui. One of ordinary skill in the art would have added this feature into Halvorson/Allen/Bui with the motivation to provide an adjustable and a more effective interactive medication delivery device. (see at least Kaufman Column:2 Lines:15-28)

## ***Response to Arguments***

13. Applicant's arguments received on 06 October 2009 have been fully considered.

14. In response to applicant's argument that Halvorson, Allen and Kaufman are nonanalogous art, it has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the applicant was concerned, in order to be relied upon as a basis for rejection of the claimed invention. See *In re Oetiker*, 977

F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). Further, Examiner points out that the cited prior art does effectively disclose the corresponding limitations.

15. Applicant argues for the allowability of claims 1, 17 & 25 because the prior Office Action fails to teach claim language that was added to independent claims 1, 17 & 25 Examiner points out that this claim language has been added and is addressed in this Office Action.

16. Applicant's arguments with respect to added claims 25-26 have been considered but are moot in view of the new ground(s) of rejection.

17. As per claims 2-16 applicant makes arguments based on dependency on claim 1 and are rejected for on the same grounds.

18. As per claims 18-23 applicant makes arguments based on dependency on claim 17 and are rejected for on the same grounds.

19. As per claims 8 applicant makes arguments based on dependency on claim 1 and are rejected for on the same grounds.

20. As per claims 22 applicant makes arguments based on dependency on claim 17 and are rejected for on the same grounds.



### **Conclusion**

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry of a general nature or relating to the status of this application or concerning this communication or earlier communications from the Examiner should be directed to **Rajiv J. Raj** whose telephone number is **(571) 270-3930**. The Examiner can normally be reached on Monday-Friday, 7:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, **Jerry O'Connor** can be reached at **571.272.6787**.

Official replies to this Office action may now be submitted electronically by registered users of the EFS-Web system. Information on EFS-Web tools is available on the Internet at: <http://www.uspto.gov/ebc/portal/tools.htm>. An EFS-Web Quick-Start Guide is available at: <http://www.uspto.gov/ebc/portal/efs/quick-start.pdf>.

Alternatively, official replies to this Office action may still be submitted by any **one** of fax, mail, or hand delivery. **Faxed replies should be directed to the central fax at (571) 273-8300**. Mailed replies should be addressed to "Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450." Hand delivered replies should be delivered to the

Application: 10/750,032

Paper No. 20091103

Art Unit: 3686

Page 25

“Customer Service Window, Randolph Building, 401 Dulany Street, Alexandria, VA  
22314.”

Date: 11/03/09

/RJR/

Patent Examiner Art Unit 3686

/Gerald J. O'Connor/  
Supervisory Patent Examiner  
Group Art Unit 3686